

1 (April 7, 2003)

2 **Precast Reinforced Concrete Three Sided Structure**

3 **Manufacturing Plant Quality Control Program**

4 The manufacturing plant of precast reinforced concrete three sided structures
5 shall be certified by one of the organizations specified in Section 6-02.3(28).
6

7 **Design Criteria**

8 The precast reinforced concrete three sided structures shall be designed for an
9 HS-25 live load, in accordance with the AASHTO Standard Specifications for
10 Highway Bridges, Sixteenth Edition - 1996, and current interim's, load factor
11 design method.
12

13 Precast reinforced concrete three sided structures shall be precast rigid frames
14 with monolithic upper corners internally reinforced for moment and shear
15 resistance, except as otherwise noted. Connecting separate and individually
16 precast concrete panels together to form the specified three sided frame
17 geometry may be acceptable provided the following additional requirements
18 are satisfied:
19

- 20 1. The structure system shall provide moment and shear resistance
21 from the lateral load from backfill placed full width and full height at
22 one side only of the three sided structure.
23
- 24 2. The structure system receives the approval of the Bridge and
25 Structures Office and the Hydraulics Office.
26

27 **Approved Products**

28 The following products are approved for use as precast reinforced concrete
29 three sided structures with spans less than 7.92 meters, when designed,
30 fabricated, and constructed in accordance with Section 6-02.3(28) as
31 supplemented in these Special Provisions:
32

33 Product Name	Fabricator
34 Three Sided Bridge	Utility Vault Company
	P.O. Box 588
	Auburn, WA 98071-0588
	(253) 839-3500
	1-800 892-1538
	Fax: (253) 735-4201
41 Three Sided	Central Pre-Mix Prestress Company
42 Hydraulic Structure	P.O. Box 3366
	Spokane, WA 99220-3366
	(509) 533-0267
	Fax: (509) 534-3013